

REMARKS

The specification has been amended to add section heading where appropriate. The specification has been amended to delete the reaction scheme on page 29 and a formal drawing is being submitted to include the substance of the deleted reaction scheme.

A new Abstract in compliance with 37 CFR1.121(b) is being submitted on a separate sheet of paper.

Claims 1-3 and 5-15 were rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which is not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Reconsideration is requested.

Claim 1 has been amended to insert the deleted language . For this reason, it is requested that this ground of rejection be withdrawn.

Claims 8-9 and 14 have been rejected under 35 U.S.C.112, first paragraph as not being enabling.

Reconsideration is requested.

The Examiner has stated that there is no evidence that the claimed compounds are effective to treat various diseases. The present application includes information regarding data that the applicants have obtained from receptor binding assays. The biological efficacy of compounds believed to be effective as tachykinin receptor antagonists may be confirmed by an assay which measures binding to NK-1 and NK-2 receptor sites as described on page 27 of the present specification.

. The antagonist activity at the NK-2 receptor of compounds of the present invention has been determined on the rabbit isolated pulmonary artery and the hamster isolated trachea preparations, two bioassays endowed with two putative NK-2 receptor subtypes.

Furthermore, it is well known that the diseases indicated in the specification are linked with the activity of NK-2 receptors, therefore compounds which have an antagonistic activity on these receptors (activity which is demonstrated *in vitro*) are useful in the treatment of such diseases.

Applicants thank the Examiner for his suggestions on amending the claims that are incorporated herein. The preferred arrangements of the specification have been adopted. In Claim 1, line 1, the term "general" has been eliminated. In Claim 2, line 1 the term "compounds" has been rewritten in the singular. Also in Claim 2, third line from last, the left-handed bracket has been removed. Further, as suggested by the Examiner, in Claim 3 the term TFA has been defined, as trifluoro-acetic acid, and referenced throughout. The superfluous periods in Claim 3 have also been removed. In Claim 5 the term "excipients", and in Claim 6 and 7, the term "antagonists" have all been placed in the singular.

The term "anxiolytics" in Claim 9 has been rewritten in the singular. In Claims 7 and 11-13 the abbreviation "NK-2" has been explained as neurokinin-2.

Claim 10 has been rewritten to recite a method of antagonizing "tachykinin receptors," not tachykinin itself. Also in Claim 10 the term "tachykinin peptide receptors" has been shortened to "tachykinin receptors".

At page 7 of the Office Action

Claims 1-2 were rejected under 35 U.S.C. §102(b) as being anticipated by Rothe, M. (*Pept Proc Eur Pept Symp* 14th, 71-8, 1976). Specifically, the Examiner stated that Claim 1 includes the compound cyclo-Val-Val-Phe-Phe. This limitation has been introduced into Claim 1. In addition, the recitation: "when R₁ and R₂ are benzyl or 4-hydroxybenzyl, R₃ and R₄ are not isopropyl." As stated by the Examiner, this limitation eliminates the 35 U.S.C. §102(b) rejection based on Kitakabake, (*Peptide Chemistry*, 17, 7, 1980). The Examiner also noted that the 35 U.S.C. §103 rejection for obviousness would not be overcome by this amendment.

Applicant respectfully transgresses the rejection and requests reconsideration thereof.

The presence of the same four amino acids in the compound found in Kitakabake do not render the compounds structurally similar enough to create a 35 U.S.C. §103 rejection for obviousness. The ordering of the amino acids within the

present invention leads to vastly different interactions than would the ordering within the disclosed prior art. Had the totality of the present invention been such that movement of amino groups within its structure had no effect on the chemical properties of the compound, we would see a perfectly symmetrical structure. This is not the case at hand. The R₁ and R₂ groups are in very different chemical locations to that of the R₃ and R₄ groups. A change in their presence would create a change in the compound's overall effect on the NK-2 receptors, as well as a myriad of other interactions within the human body.

Furthermore the existence of Valine as the R₁ and R₂ is not within the present Markush group of the existing claims. Therefore while Kitakabake, may contain the same amino acids, they are not in the same configuration, nor are they even allowable according to the parameters of the present invention.

The present invention is distinctly different from Kitakabake, which does not teach or address main features of the Applicant's invention. Notwithstanding, no teaching is provided that would motivate anyone to modify Kitakabake.

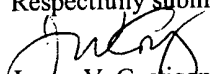
The present invention represents a significant advantage over the prior art and avoids disadvantages of the prior art compositions. The prior art is limited to the disclosure of cyclic hexapeptides, bicyclic hexapeptides and cyclic hexapeptidomimetics with NK-2 activity. However, there remains a need for more potent and selective NK-2 receptor antagonists. The pA₂ of between 5 and 9 indicates that the compounds of the present invention are potent and selective NK-2 receptor antagonists. The claimed compounds are structurally diverse from the prior art in that they have a lower molecular weight and are monocyclic with only four bifunctional residues linked together via peptide or pseudopeptide bonds. Such activity could not be predicted from the prior art that contains no relevant teachings as to predicted activity.

There is no teaching or direction to modify the prior art in such a manner that the claimed compounds would be discovered. Accordingly, it is urged that the unique structural and functional composition of the present application is unobvious. Given the aforementioned distinctions, it is maintained that the Kitakabake reference does not teach or suggest the present invention. For these reasons, it is requested that the rejections to the present claims be withdrawn.

Based on the amendments, applicant respectfully submits that all of Claims 1-15 are now allowable over the prior art and that the present application is in proper form for allowance.

Favorable consideration and early allowance is respectfully requested and earnestly solicited.

Respectfully submitted,


James V. Costigan
Registration No. 25,669

Hedman & Costigan, P.C.
1185 Avenue of the Americas
New York, N.Y. 10036
(212) 302-8989

Version with Markings to Show Changes Made:

IN THE SPECIFICATION

Kindly amend the specification as follows:

Page 1, line 3, rewrite heading "Scope of the Invention" as:

--Background of the Invention--

Page 3, line 9, rewrite heading "State of the Art" as:

--Description of the Related Art--

Page 4, line 5, insert:

--Brief Description of the Drawing--

--FIG.1 is a reaction scheme for the general synthesis of compounds of formula (1).--

Delete the paragraph that begins at page 6, line 13 and insert the following:

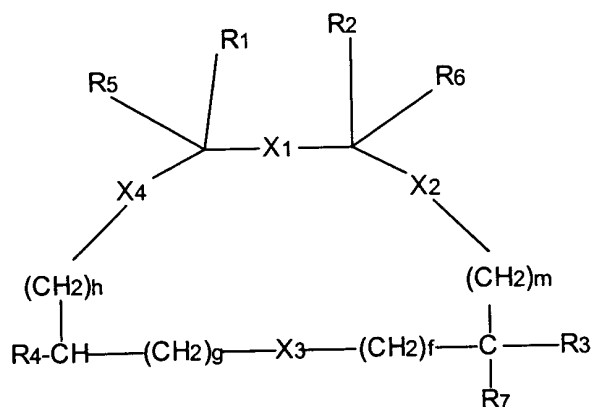
--To provide an example, [the attached diagram] Fig.1 presents the general synthesis of compounds of formula (I) in which $X_1 = X_2 = X_3 = X_4 = -CONH-$ --.

Delete page 29.

IN THE CLAIMS:

Kindly amend Claims 1-13 as follows:

1. (Amended) A monocyclic compound having the [general] formula (I):



in which:

X_1, X_2, X_3, X_4 , which may be the same or different from one another, is selected from the group consisting of $-CONR-$, $-NRCO-$, $-OCO-$, $-COO-$, $-CH_2NR-$ and $-NR-CH_2-$, where R is H or a C_{1-3} alkyl or benzyl;

f, g, h, m , which may be the same or different from one another, represent a number selected from the group consisting of 0, 1 and 2;

R_1 and R_2 , which may be the same or different from one another, represent a $-(CH_2)_r-$ Ar group, where $r = 0, 1, 2$ and where Ar is an aromatic group selected from the group consisting of: benzene, naphthalene, thiophene, benzothiophene, pyridine, quinoline, indole, furan, benzofuran, thiazole, benzothiazole, imidazole, and benzo-imidazole, said Ar group being possibly substituted with a maximum of two residues selected from the group consisting of C_{1-3} alkyl or halo-alkyl, C_{1-3} alkoxy, C_{2-4} amino-alkoxy, halogen, OH , NH_2 , and $NR_{13}R_{14}$ where R_{13} and R_{14} , which may be the same or different from one another, represent hydrogen or C_{1-3} alkyl;

wherein R_3 is selected from the group consisting of:

-hydrogen,

-linear or branched alkyl having the formula C_nH_{2n+1} , with $n = 1-5$, cyclo-alkyl or

alkylcyclo-alkyl groups having the formula C_nH_{2n+1} , with $n = 5-9$,

$-(CH_2)_r-Ar_1$ group, where $r = 0, 1, 2$ and where Ar_1 is an aromatic group selected from the group consisting of: benzene, naphthalene, thiophene, benzothiophene, pyridine, quinoline, indole, furan, benzofuran, thiazole, benzothiazole, imidazole, and benzimidazole, said Ar_1 group being possibly substituted with a maximum of two residues selected from the group consisting of C_{1-3} alkyl or halo-alkyl, C_{1-3} alkoxy or amino-alkoxy, halogen, OH, NH_2 and $NR_{13}R_{14}$ where R_{13} and R_{14} , which may be the same or different from one another, represent hydrogen or C_{1-3} alkyl;

wherein R_4 is selected from the group consisting of:

-hydrogen or C_{1-6} alkyl,

-L-Q, where L is a chemical bond or a linear or branched C_{1-6} alkyl residue and Q is selected from the group consisting of:

i) H, OH, OR_9 , NH_2 , NR_9R_{10} , guanidine, sulfate, phosphonate and phosphate

where R_9 and R_{10} , which may be the same or different from one another,

represent a hydrogen C_{1-3} alkyl group, C_{1-3} hydroxyalkyl, C_{1-3} dihydroxyalkyl, C_{1-3} alkyl-CONHR₁₂, C_{1-3} alkyltetrazole, C_{1-3} alkyl-COOH or wherein R_9R_{10} joined

together form with the N-atom a saturated 4-6 membered heterocycle possibly containing a further heteroatom selected from the group consisting of N, O and S and

wherein R_{12} is a mono-, di-, tri-glycosidic group possibly protected with one or more C_{1-3} -acyl groups or substituted with amino-groups or C_{1-3} acylamino-groups;

ii) COOH, tetrazole, SO_2NH_2 , $SO_2NHCOOR_8$, CONHR₈, NHCOR₈, where R_8

represents a linear or cyclic C_{1-6} alkyl chain containing one or more polar groups

selected from the group consisting of: OH, $NR_{15}R_{16}$, COOH, CONHR₁₂, PO_3H and SO_3H , OR_{11} and where R_{15} and R_{16} , which may be the same or different from one

another, represent a hydrogen or C_{1-3} alkyl group, and where R_{11} is a C_{1-3} alkyl or C_{2-4} amino-alkyl chain, R_{12} is a mono-, di-, tri-glycosidic group possibly

protected with one or more C_{1-3} acyl groups or substituted with amino-groups or

C_{1-3} acylamino-groups or $R_{15}R_{16}$ joined together form with the N-atom a

saturated 4-6 membered heterocycle possibly substituted with C_{1-3} alkyl-groups

or with saturated 4-6 membered heterocycle-groups containing at least an N-atom;

iii) COOR₁₇, CONHR₁₂, OR₁₂ where R_{12} is a mono-, di-, tri-glycoside group

possibly protected with one or more C_{1-3} acyl groups or substituted with amine or C_{1-3} acylamine groups and R_{17} is a group R_{12} as above defined or a group C_{1-3} alkyl, C_{1-3} alkylphenyl, wherein the phenyl-group can be substituted with a group OH, NO_2 , NH_2 , CN, CH_3 , Cl, Br;
 R_5 , R_6 , R_7 , which may be the same or different from one another, represent a hydrogen or C_{1-3} alkyl group; with the proviso that when R_1 or R_2 are benzyl or 4-hydroxybenzyl then R_3 and R_4 are isopropyl and an acceptable salt or enantiomer thereof.

2. (Amended) Compound[s] according to Claim 1, in which:

f , g , h , m , which may be the same or different from one another, may be 0 or 1;

R_1 and R_2 which may be the same or different from one another, represent the side chain of a natural amino acid selected from the group consisting of tryptophan, phenylalanine, tyrosine and histidine, or the side chain of a non-natural amino acid selected from the group consisting of:

tryptophan and phenyl alanine, either mono- or di-substituted with residues selected from the group consisting of C_{1-3} alkyl or halo-alkyl, C_{1-3} alkoxyl or amino-alkoxyl, halogen, OH, NH_2 and $NR_{13}R_{14}$, where R_{13} and R_{14} , which may be the same or different from one another, represent a hydrogen or C_{1-3} alkyl group;

R_3 is selected from the group consisting of:

– linear or branched alkyl having the formula C_nH_{2n+1} with $n = 1-5$ (selected from the group consisting of methyl, ethyl, propyl, isopropyl, n-butyl and t-butyl) cycloalkyl or alkylcycloalkyl of formula C_nH_{2n-1} with $n = 5-9$ (selected from the group consisting of: cyclopentyl, cyclohexyl and methylcyclohexyl)

– $(CH_2)_r-Ar_1$, where $r = 1$ or 2 and where Ar_1 is an aromatic group selected from the group consisting of: α -naphthyl, β -naphthyl, phenyl, indole, said Ar_1 group being possibly substituted with a maximum of two residues selected from the group consisting of: C_{1-3} alkyl, CF_3 , C_{1-3} alkoxyl, Cl, F, OH and NH_2 ;

R_4 represents an L-Q group where:

L is a chemical bond or CH_2 , and

Q is selected from the group consisting of:

- OH, NH₂, NR₉R₁₀, OR₁₁, and where R₉ and R₁₀, which may be the same or different from one another, represent a hydrogen or C₁₋₃ alkyl group, C₁₋₃hydroxy alkyl, C₁₋₃dihydroxyalkyl, C₁₋₃alkyl-CONHR₁₂ (wherein R₁₂ is a monoglycosidic group derived from D or L pentoses or hexoses (selected from the group consisting of ribose, arabinose, glucose, galactose, fructose, glucosamine and galactosamine and their N-acetylated derivatives)), C₁₋₃alkyltetrazole, C₁₋₃alkyl-COOH or wherein R₉R₁₀ are joined together to form with the N atom a morpholine or a piperidine ring and where R₁₁ is a C₁₋₃ alkyl chain, or a C₂₋₄ amino-alkyl chain;
- NHCOR₈ wherein R₈ is a cyclohexane containing from 2 to 4 OH groups, a C₁₋₆ alkylchain containing a polar group (chosen in the group consisting of NH₂, COOH, CONHR₁₂, (wherein R₁₂ is as hereabove defined) or [1,4']bipiperidine)
- COOH, COOR₁₇ or CONHR₁₂, wherein R₁₂ is as hereabove defined and R₁₇ is as R₁₂ or a group 4-nitrobenzyl.
- R₅, R₆, R₇ are H[[]],

in which the carbon atom that carries the substituents R₃ and R₇ has configuration R.

3. (amended twice) A compound according to Claim 2 selected from:

- (a) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (b) Cyclo{-Suc-Trp-Phe-[(S)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (c) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂C₆H₁₁)-CH₂-NH]}
- (d) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂C₆H₄(4-OCH₃))-CH₂-NH]}
- (e) Cyclo{-Suc-Trp(5F)-Phe-[(R)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (f) Cyclo{-Suc-Trp(Me)-Phe-[(R)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (g) Cyclo{-Suc-Phe(3,4-Cl)-Phe-[(R)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (h) Cyclo{-Suc-Trp-Phe(3,4-Cl)-[(R)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (i) Cyclo{-Suc-Trp-Tyr-[(R)-NH-CH(CH₂C₆H₅)-CH₂-NH]}
- (j) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂C₆H₃-3,4-diCl)-CH₂-NH]}
- (k) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂C₆H₄-4-OH)-CH₂-NH]}
- (l) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-CH₂-C₆H₅)-CH₂-NH]}

- (m) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-2-naphthyl)-CH₂-NH]}
- (n) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-indol-3-yl)-CH₂-NH]}
- (o) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-5-F-indol-3-yl)-CH₂-NH]}
- (p) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₄-3-F)-CH₂-NH]}
- (q) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₃-3,4-diF-CH₂-NH)-]}
- (r) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₄-4-CF₃-CH₂-NH)-]}
- (s) Cyclo{-Suc-Trp-Phe-[(R)-NH-CH₂-CH(CH₂C₆H₅)-NH]}
- (t) Cyclo{-Suc-Trp-Phe-[(S)-NH-CH₂-CH(CH₂C₆H₅)-NH]}
- (u) Cyclo{-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-(CH₂)₃CO-}
- (v) Cyclo{-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-N(CH₃)]-(CH₂)₃CO-}
- (w) Cyclo{-Suc[1(S)-NH₂]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (x) Cyclo{-Suc[1(R)-NH₂]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (y) Cyclo{-Suc[2(S)-NH₂]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (z) Cyclo{-Suc[2(R)-NH₂]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (aa) Cyclo{-Suc[1(S)-NH(CH₃)]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (ab) Cyclo{-Suc[1-COO(CH₂-C₆H₄-4-NO₂)]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (ac) Cyclo{-Suc(1-COOH)-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]}
[Cyclo{-Suc(1-COOH)-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]}]
- (ad) Cyclo{-Suc(1-OH)-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]}
- (ae) Cyclo{-Suc(2-COOH)-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]}
- (af) Cyclo{-Suc(2-OH)-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]}
- (ag) Cyclo{-Suc[1(S)-(2H-tetrazolyl-5-ylmethyl)amino]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoro-acetic acid
- (ah) Cyclo{-Suc[1(S)-(morpholin-4-yl)]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoroacetic acid
- (ai) Cyclo{-Suc[1(S)-N(CH₃)₂]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoroacetic acid
- (aj) Cyclo{-Suc[1(S)-(piperidin-4-yl)]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoroacetic acid
- (ak) Cyclo{-Suc[1(S)-(N(CH₂CH₂OH)₂)]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoroacetic acid

- (al) Cyclo{-Suc[1(S)-(N(CH₂CH(OH)CH₂OH)]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoroacetic acid
- (am) Cyclo{-Suc[1(S)-(3-carboxypropanoyl)amino]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}.
- (an) Cyclo{-Suc[1(S)-[3-N'-β-D-glucopiranos-1-yl)-carboxamidopropanoyl]amino]-Trp-Phe-[(R)NH-CH(CH₂-C₆H₅)-CH₂NH]-}
- (ao) Cyclo{-Suc[1(S)-[(carboxymethyl)amino]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[.TFA] trifluoroacetic acid
- (ap) Cyclo{-Suc[1(S)-[N'-β-D-glucopiranos-1-yl)-carboxyamideomethyl]amino]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[TFA] trifluoroacetic acid
- (aq) Cyclo{-Suc[1(S)-(chiny)amine]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}
- (ar) Cyclo{-Suc[1(S)-(4-aminobutanoyl)amino]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[TFA] trifluoroacetic acid
- (as) Cyclo{-Suc[1(S)-[1,4')bipiperidin-1-yl]acetamido]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}[TFA] trifluoroacetic acid
- (at) Cyclo{-Suc[1-N-(β-D-glucopiranos-1-yl)-carboxyamido]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}
- (au) Cyclo{-Suc[1(S)-[N'-(2-N-acetyl-β-D-glucopiranos-1-yl)-carboxyamido]-Trp-Phe-[(R)-NH-CH(CH₂-C₆H₅)-CH₂-NH]-}.

5. (Amended) A composition comprising a compound of general formula (I) according to Claim 1 in combination with a suitable carrier or excipient[s].

6. (Amended) A composition according to Claim 5, adapted for use as a tachykinin antagonist[s].

7. (Amended) A composition according to Claim 6, adapted for use as an antagonist[s] of the human neurokinin-2 (herein NK-2) receptor.

8. (Amended) A composition according to Claim 7, adapted for use in the treatment of the bronchospastic and inflammatory component of asthma, coughing , pulmonary

irritation, intestinal spasms, spasms of the biliary tract, local spasms of the bladder and of the ureter during cystitis, and kidney infections and colics.

12. (Amended) A method of antagonizing an NK-2 receptor in a mammal afflicted with asthma comprising contacting an NK-2 receptor in said mammal with a compound according to Claim 1 for a time and under conditions effective to antagonize an NK-2

13. (Amended) A method of antagonizing an NK-2 receptor in a mammal afflicted with an anxiety disorder comprising contacting an NK-2 receptor with a compound according to Claim 1 for a time and under conditions effective to antagonize an NK-2 receptor.

14. (Amended) A [M]method for the treatment of the bronchospastic and inflammatory component of asthma, coughing, pulmonary irritation, intestinal spasms, spasms of the biliary tract, local spasms of the bladder and if the ureter during cystitis, and kidney infections and colics, in which quantities of between 0.02 and 10 mg/kg of body weight of active principle consisting [of products] of formula (I), according to Claim 1, are administered to the patient for a time and under conditions effective to antagonize an NK-2 receptor.

16. (New) A method of antagonizing a neurokinin-2 (NK-2) receptor comprising contacting an NK-2 receptor with a compound according to claim 1 for a time and under conditions effective to antagonize said NK-2 receptor.

17. (New) A method of antagonizing a neurokinin-2 (NK-2) receptor comprising administering to a mammal in need thereof a compound according to claim 1 for a time and under conditions effective to antagonize the NK-2 receptor.

18. (New) The method according to claim 17 wherein said mammal is afflicted with a disorder selected from the group consisting of the bronchospastic and inflammatory component of asthma, coughing, pulmonary irritation, intestinal spasms, spasms of the

biliary tract, local spasms of the bladder and of the ureter during cystitis, and kidney infections and colics.